

2013 GEDC Panel Discussion Impact of Globalization and Information Technology on Engineering Education

Mass-Production vs. Mass-Education

When it comes to eLearning, can universities learn from industry in this era of technology and globalization?

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Two things that have changed the world...

Mass production in industry in the 19th century Mass education at universities in the 20th century They both share the same goal and approach... the goal: serve many and save money the approach: standardization





When competitions intensified in the 80s', industry took a price-focused proposition

At the technology front, they used automation to expand the volume At the globalization front, they exploited outsourcing to lower the cost

The price-focused proposition is unsustainable! Products commoditized, jobs eliminated, skills lost, plants relocated, and businesses closed





Should universities follow the same <u>price</u>focused proposition in eLearning today?

At the technology front,

- should we continue to robotize lectures and digitize courseware to expand the enrollment
- same as using automation to increase the volume At the globalization front,
- should we continue to recruit more and more international students to fill the classroom seats
 - same as using outsourcing to decrease the cost





What are the key lessons that universities can learn from industry.....

- 1. The value-focused proposition is more sustainable
- 2. One must always innovate from the core business

So, universities should ask themselves...

What are the new, innovative value-propositions of campus education which eLearning can bring to enrich students' learning experiences on-campus?





A new value proposition of campus education — learn global *context* beyond just content

At the technology front,

we should use eLearning to eliminate the distance of student interaction, rather than just maximize the distance of course delivery

At the globalization front,

we should use eLearning to provide global learning experiences on local campus as "a right for the many," rather than just "a privilege for the few"





The iPodia Alliance: classrooms-without-borders





imagine no more, the future is already here!







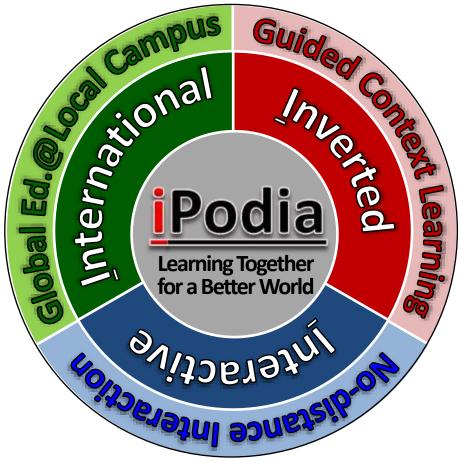
USCViterbi

iP�∂ia™

Borderless interactive learning

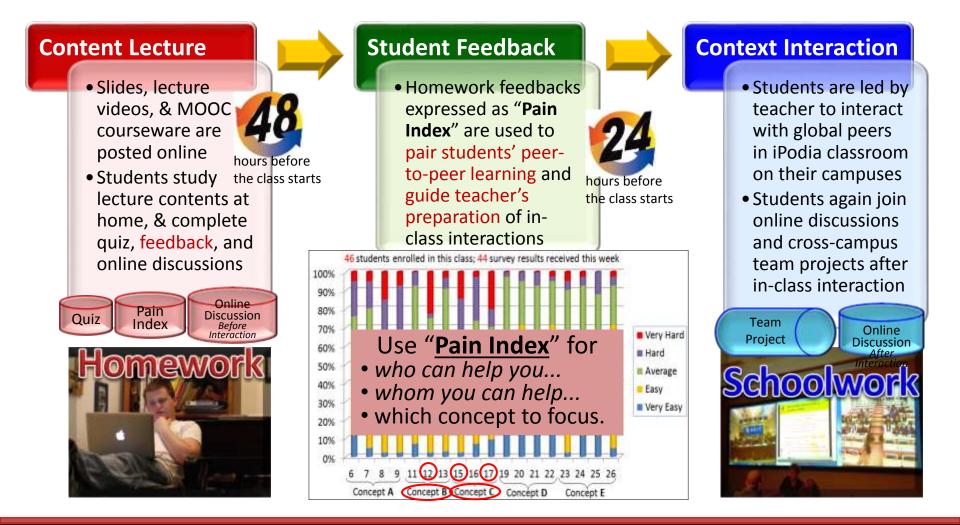
The "<u>i</u>" in <u>iPodia</u> stands for:

- <u>Inverted learning</u>
 - Because context is best acquired via guided engagement by learners
- <u>Interactive learning</u>
 - Because what you learn depends on with whom you learn
- <u>International learning</u>
 - Because diversity can increase everyone's learning opportunity





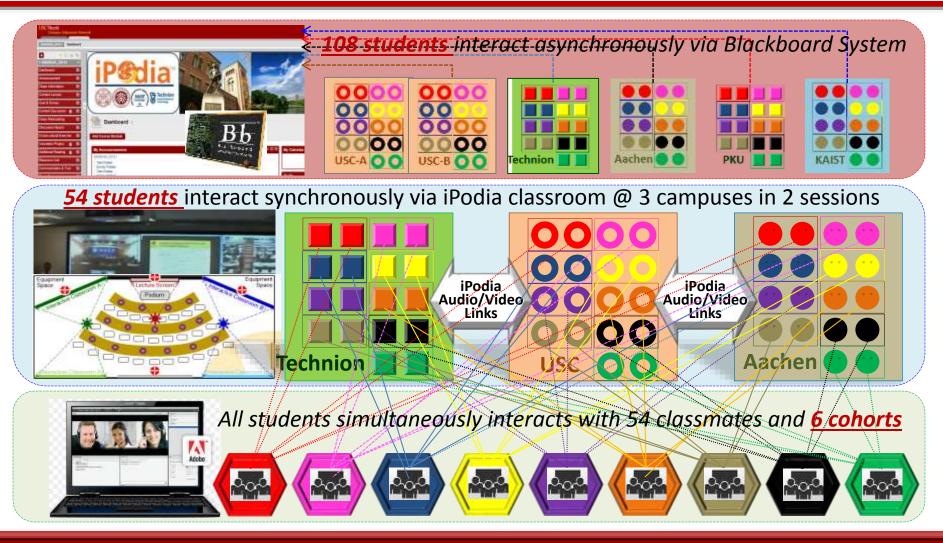
Inverted: enables peer-learning





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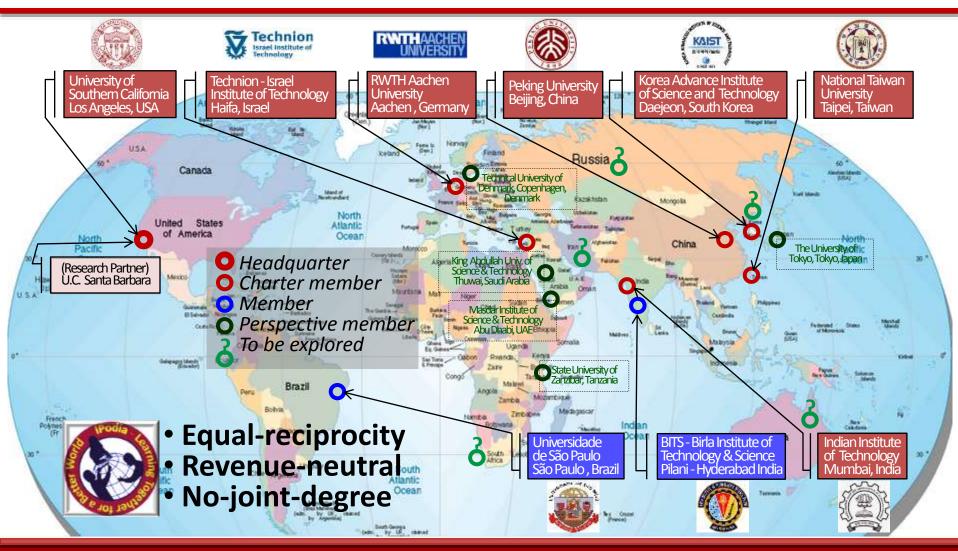
iP@dia Interactive: empowers participation





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iP@dia International: embraces diversity

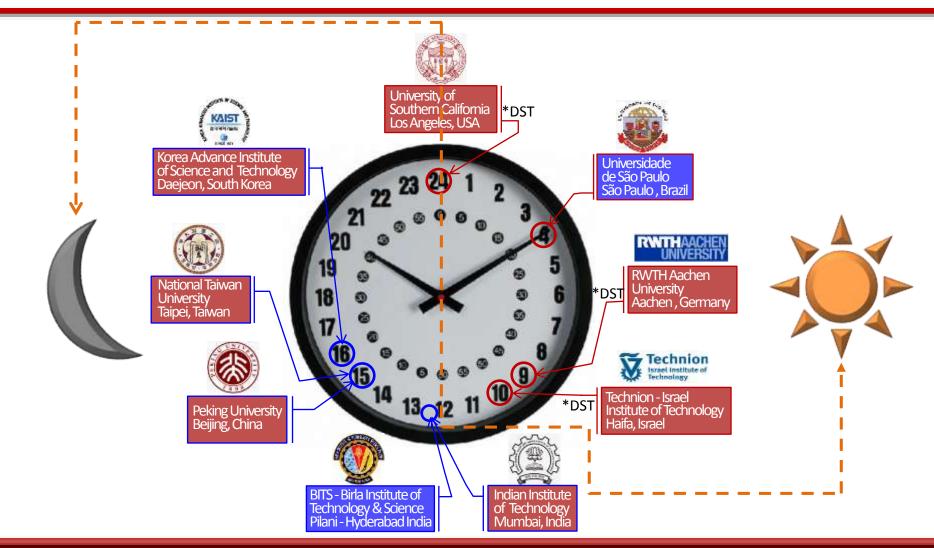




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iPdia

Learning around the clock





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Learning across the season

	12	3 4 5 6 7	8 9 10 11 12
	America	an (Spring)	American (Fall)
Existing Calendar	(Fall)	European (Spring)	European (Fall)
	(Fall)	Asian (Spring)	Asian (Fall)
Option 1: follow one calendar	America	an (Spring)	American (Fall)
	(Fall)	European (Spring)	European (Fall)
	(Fall)	Asian (Spring)	Asian (Fall)
Option 2:	America	an (Spring)	American (Fall)
change	(Fall)	European (Spring)	European (Fall)
calendars	(Fall)	Asian (Spring)	Asian (Fall)
<u>Option 3</u> : shorter, intensive, periods	America	an (Spring)	American (Fall)
	(Fall)	European (Spring)	European (Fall)
	(Fall)	Asian (Spring)	Asian (Fall)

